



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

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Technical code for water supply and sewerage of urban

城镇给水排水技术规范

(English Translation)

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1.0.1

This code is prepared with a view to guarantee the urban water safety and water environment quality, maintain the health water circulation and regulate the basic function and technical performance of urban water supply and drainage systems and facilities.

1.0.2

This code is applicable to the planning, investigation, design, construction, acceptance, running, maintenance and management, etc. of systems and facilities relevant to urban water supply, drainage, wastewater reclamation and reuse and rainwater utilization.

For urban water supply, systems and facilities for water intaking, delivery, purification, distribution and building water supply are included; for urban sewerage, systems and facilities for building drainage as well as collection, delivery, treatment and disposal of rainwater and sewage are included; for sewage reclamation and reuse and rainwater utilization, urban sewage reclamation and reuse and rainwater utilization systems as well as water and rainwater utilization facilities in local area, residential area and building are included.

1.0.3

The planning, investigation, design, construction, running, maintenance and management of urban water supply and drainage systems and facilities shall comply with the principles of making safety water supply, service function guarantee, resource conservation and environment protection keep harmonious development with the natural circulation of water.

1.0.4

Besides meeting those specified in this code, the planning, investigation, design, construction, running, maintenance and management of urban water supply and drainage systems and facilities shall also comply with those stipulated in the current relevant standards of the nation; when relevant current standards are inconsistent with those specified in this code, those specified in this code shall be observed.

2.0.1

Water supply and drainage system compatible with the development demands must be constructed in the urban to maintain the ecological security of water environment.

2.0.2

Urban water supply and drainage planning shall be based on the master plans of the region, urban and town, and shall be in harmony with water resource planning, water pollution control planning, ecological and environmental protection planning and disaster prevention planning, etc.

2.0.3

Urban water supply and drainage facilities shall be provided with capacities for responding to natural disaster, accident disaster, public health event, social security event and other emergency incidents.

2.0.4

The flood control criteria for urban water supply and drainage facilities shall not be less than the corresponding fortification requirements of serviced town and shall have appropriate safety margin.

2.0.5

Qualified materials and facilities must be used for urban water supply and drainage facilities. Meanwhile, the materials and facilities of urban water supply facilities must meet sanitary security requirements.

2.0.6

Water-saving and energy-saving technology, equipment, instrument and product shall be adopted for urban water supply and drainage system.

2.0.7

In urban water supply and drainage system, construction relevant to production safety, environmental protection and water-saving facility shall be designed, constructed and put into operation together with the principal part of the project.

2.0.8

Corresponding operation standards shall be prepared for the running, maintenance and management of urban water supply and drainage systems and facilities and be enforced strictly.

2.0.9

The construction and management for relevant facilities must be carried out during the construction and running of urban water supply and drainage engineering to meet the requirements for production safety, occupational sanitation safety, fire safety and safety and security.

2.0.10

Noise, wastewater, exhaust and solid wastes produced during the construction and running of urban water supply and drainage engineering shall not cause harm to surrounding environment and personal health and measures shall be taken to reduce the discharge of greenhouse gases.

2.0.11

Inflammable, explosive and toxic dangerous chemicals used and

3.1.1

Urban water supply system shall be provided with the ability of assuring continuous and uninterrupted water supply to urban and meeting the water utilization requirements by urban regarding water quality, water volume and water pressure.

3.1.2

The water quality of drinking water in urban water supply must comply with the national current standard "Standards for Drinking Water Quality".

3.1.3

Water supply scale shall guarantee the maximum daily water consumption within the term of years specified by the scope of water supply.

3.1.4

Urban water consumption shall be in harmony with urban water resources.

3.1.5

Urban water supply planning shall, based on science forecasting of urban water consumption, reasonably develop and utilize water resources, coordinate the layout of water supply facilities and guide the water supply engineering construction correctly.